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12/13/05

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. **(Currently Amended)** A method comprising:
obtaining reference data that characterizes a media stream, said reference data including a mathematical transform of at least a portion of an image included in said media stream;
obtaining altered data that characterizes said media stream after said media stream has traversed a channel that includes a network, said altered data including a transform of the at least a portion of the image included in said media stream after said media stream has traversed said channel; [[and]]
determining a quality of service of said channel on the basis of a comparison of said reference data and said altered data;
obtaining network statistics associated with transmission on said channel; and
correlating said network statistics with said altered data.
2. **(Original)** The method of claim 1, wherein
said reference data characterizes a feature of said media stream; and
said altered data characterizes a feature of said media stream after said media stream has traversed said channel.
3. **(Original)** The method of claim 1, wherein obtaining at least one of said reference and said altered data comprises applying a Sarnoff JND algorithm or an ANSI T1.801.03 algorithm.
4. **(Currently Amended)** The method of claim 2, wherein determining [[a]] the quality of service of said channel comprises comparing said reference data and said altered data.